EDITORIAL INDEX

adhesives age

Volume 12-1969 Numbers 1-12

A

Accelerated Aging of Pressure-Sensitive Tape .. *R. F. Grossman* Dec. 41
Adams, M. F., Raff, R. A. and Austin, H. F. Water Resistant Plywood Adhesive Based on Whole Wheat Flour ..... Sept. 34
ADHESION
Hot Melt Improves Flap, on Beer Packaging Line ..... Mar. 38
Of Natural Rubber to Brass Plated Wire ....*Arthur E. Hicks and F. Lyon* May 21
Tack and, of Uncured Elastomers ..... *Kenneth C. Petersen and Robin A. Martin* Mar. 22
Theory of, Mechanism of Bond Failure and Mechanism of Bond Improvement: Part II—A Proposed Mechanism of Bond Failure ..... *N. J. DeLollis* Jan. 25
ADHESIVE AND SEALANT COUNCIL
Forms New Bureau ..... Oct. 48
Holds Long Range Planning Seminar in Milwaukee (Oct. 20-23) ..... Dec. 44
Market Survey Extended to May 30 ..... May 51
Processing Seminar Presented at Cherry Hill Meeting (Mar. 11-13) ..... May 39
Summer Meeting Held in Colorado Springs (June 25-28) .. Sept. 42
ADHESIVES AND PRODUCTS
Acetate Adhesive (Adhesive Products) ..... Nov. 10
Acetate Fibre Tape (Johnson & Johnson) ..... Aug. 12
Acrylic Latex Caulk (Electro Cote) ..... Mar. 10
Acrylic Sealer (Chrysler) ..... Mar. 12
Acrylic Seam Sealant (Schnee-Morehead Chemicals) ..... Nov. 10
Adhesive and Primer (Epoxylite) ..... Jan. 10
Adhesive Coated Screw (Standard Pressed Steel) ..... Aug. 12
Adhesive-Impregnated Cloth (Raybestos-Manhattan) ..... May 10
Adhesive Sealer (Chrsyler) .... Apr. 10
Adhesive Systems (Evans) ..... May 13
Adhesive Transfer Film (Talon Adhesives) ..... Mar. 12
Aerosol Adhesive (3M) ..... Feb. 10
ADHESIVES AND PRODUCTS (Cont'd)
Air Seal Adhesive (Strong Chemical) ..... Sept. 10
Anaerobic Adhesive (Loctite) .. Feb. 10
Anchoring Cement (Ranco Industrial Products) ..... Nov. 10
Aqueous Adhesives (Swift Chemical) ..... Mar. 10
Bonding Adhesive (Vigor Tool) . June 10
Bonding Agent (Hartline Products) ..... Apr. 10
Bonding Epoxy (H. B. Fuller) . July 10
Bottle Gum (H. B. Fuller) ..... Jan. 10
Building Adhesives (Flintkote) . Mar. 12
Carpet Flocking Adhesive (USM) Oct. 12
Carton Closing Tape (Mystik Tape) ..... Aug. 10
Cartoning Adhesives (Pafra, Bentalls, Basildon) ..... May 10
Ceramic Tile Adhesive (Testworth Laboratories) ..... Sept. 10
Commercial Art Adhesive (3M) Aug. 12
Conductive Adhesive (Chomerics) ..... Feb. 10
Conductive Epoxy Adhesive (Epoxy Products) ..... May 10
Conductive Shielding Tape (Chase and Sons) ..... Apr. 12
Contact Cement (Testworth Laboratories) ..... Sept. 10
Copolymer Hot Melt (Manhattan Adhesives) ..... Mar. 12
Copper-filled Epoxy (Ablestik) . Feb. 10
Crepe Paper Tape (Mystik Tape) Jan. 12
Degreasing Primer (3M) ..... July 12
Dextrine Case Seal (Van-Man) . Apr. 12
Die-Cut Film Adhesive (Ablestik) ..... Mar. 10
Dry Bonding Adhesive (Adhesive Products) ..... Nov. 10
Elastomers Adhesive (Hughson Chemical) ..... Dec. 12
Envelope Window Gum (National Starch and Chemical) .. Jan. 12
Envelope Gum (Manhattan Adhesives) ..... Feb. 10
Epoxy Adhesive (Epoxy Technology) ..... Dec. 12
Epoxy Adhesive (Furane Plastics) Mar.10
Epoxy Adhesive (Leepoxy Plastics) ..... Feb. 10
Epoxy Adhesive (Metachem Resins) ..... Apr. 10
Epoxy Adhesive (Metachem Resins) ..... June 10
ADHESIVES AND PRODUCTS (Cont'd)
Epoxy Adhesives (Loctite) ..... Oct. 12
Epoxy Cement (Ren Plastics) .. Jan. 10
Epoxy Formulations (Devcon) . Sept. 10
Epoxy Resin Adhesive (Smooth-On) ..... May 13
Epoxy Resin Kits (Armstrong) . May 10
Extrusion Primer (National Starch and Chemical) ..... Oct. 12
Feathering Disc Adhesive (3M) Sept. 10
Film Adhesive (Riber-Resin) ... Jan. 10
Flame-Resistant Tape (Arno) . Mar. 10
Flooring Adhesives (Plycol-Montgomerie) ..... June 12
Foam Adhesive (3M) ..... Oct. 12
Foam-Tape (Arlon Products) .. Feb. 11
Foil Laminating Adhesive (Manufacturers Chemical) ..... Oct. 12
Fortified Adhesives (Key Polymer) ..... Apr. 10
Furniture Adhesives (A. E. Staley Mfg.) ..... Dec. 10
Glued Lap Adhesive (Evans Adhesive) ..... Aug. 12
Graphite Tape (Union Carbide) . June 10
Hot Melt Adhesive (Eastman Chemical) ..... May 10
Hot Melt Adhesive (Manhattan Adhesives) ..... Dec. 10
Hot Melt Adhesive (National Starch and Chemical) ..... May 13
Hot Melt Adhesives (National Starch and Chemical) ..... Nov. 12
Insulation Adhesives (Minnesota Mining and Manufacturing) .. June 12
Interwelding Sealant (Vogue House) ..... Nov. 10
Joint Sealant (Sika Chemical) . May 13
Label Paper (Nashua) ..... Apr. 12
Labelling Adhesive (Clarkson Laboratories) ..... Jan. 10
Labelling Adhesives (Van-Man) Mar. 12
Laminating Adhesive (ADM Tronics Unlimited) ..... Aug. 10
Laminating Adhesive (Arthur Holden and Sons) ..... May 10
Laminating Adhesive (Manufacturers Chemical) ..... Dec. 10
Laminating Adhesive (National Starch and Chemical) ..... July 12
Laminating Adhesives (Goodyear Tire and Rubber) ..... Sept. 12
Laminating Adhesives (Manufacturers Chemical) ..... June 10

ADHESIVES AND PRODUCTS (Cont'd)
Lamination Adhesive (Daubert Chemical) ... Feb. 10
Liquid Glue (Glu-Fast Equipment) ... Oct. 14
Mastic Sealant (Kelseal) ... June 10
Metal Bonding Adhesive (Jedco Chemical) ... Sept. 10
Metal Bonding Adhesives (Furane Plastics) ... July 10
Nonflammable Adhesive (Adhesive Products) ... Apr. 10
One-Way Latex (Imperial Adhesives & Chemicals) ... Dec. 10
Overcoat Adhesive (Paisley) ... Oct. 12
Packaging Hot Metal (National Starch and Chemical) ... Mar. 10
Palletized Hot Melt (National Starch and Chemical) ... Mar. 10
Palletizing Adhesive (Van-Man) June 10
Panel Adhesive Systems (American Cyanamid) ... Jan. 10
Plastic Bonding Adhesive (3M) . Dec. 10
Plastic Solder (Emerson and Cuming) ... July 12
Plastic Tape (Borden Chemical) Mar. 12
Plastics Adhesive (Allaco Products) ... Dec. 12
Poly Pallet Adhesive (Evans Adhesive) ... Aug. 10
Polyimide Film Tape (Mystik Tape) ... July 10
Pressure-Sensitive Tape (Emerson and Cuming) ... July 10
P-S Adhesive (Adhesives, Inc.) . Jan. 10
P-S Adhesives (Adhesive Products) ... Nov. 10
P-S Teflon Tapes (Fluorocarbons) ... Apr. 10
Reinforced Sealing Tapes (General Gummed Products) ... May 10
Resin Adhesives (Manhattan Adhesives) ... Mar. 10
Rubber Base Adhesive (3M) ... Apr. 12
Rubber Sealant (Enjay) ... June 12
Rubber Sealants (3M) ... Dec. 10
Self-Adhering Tape (Connecticut Hard Rubber) ... Aug. 10
Self Adhesive Vinyl Film (Morgan Adhesives) ... Jan. 10
Sheet Adhesives (Morgan Adhesives) ... July 10
Single Coat Adhesive (Hughson Chemical) ... July 12
Single Component Epoxy (Amicron) ... Oct. 14
Slate and Tile Sealer (Franklin Glue) ... Aug. 10
Solvent-Based Adhesive (Franklin Glue) ... May 13
Solvent Cements (Adhesives, Inc.) ... Aug. 12
Spray Adhesive (3M) ... Mar. 10
Spray Adhesive (3M) ... June 10
Sterilizable Adhesive (American Herberts) ... Sept. 12
Strapping Tape (Johnson & Johnson) ... Nov. 12
Synthetic Resin (PICCO) ... July 10
Table Top Cements (Smooth-On) Feb. 10
Teflon Tape (Connecticut Hard Rubber) ... Apr. 10
Thermoplastic Adhesives (Eastman Chemical) ... Jan. 10
Thermoplastic Adhesives (Imperial Adhesives & Chemicals) Oct. 14
Tile Adhesives (Franklin Glue) Dec. 12
Toy Tape (Johnson & Johnson) Aug. 10
Transfer Adhesive (Dymo Industries) ... Feb. 11
Tube Winding Adhesives (Manhattan Adhesives) ... Mar. 12
Tubing Adhesive (Standard Brands Chemical Industries) .. Jan. 12
Ultraviolet Resistant Film (Borden) ... Feb. 10
Vinyl Emulsion Adhesive (National Starch and Chemical) .. Mar. 12
Wall Tile Adhesive (Pecora Chemical) ... Feb. 11
Year-Round Hot Melt (National Starch and Chemical) ... Apr. 10
Adhesive Bonding, Effects of Various Surface Treatments on *A. T. Devine and M. J. Bodnar* May 35

ADHESIVES AND PRODUCTS (Cont'd)
Adhesive Bonding, Improved, Plasma Treatment of Delrin for ... *R. M. Lerner* Dec. 35
Adhesive Derivatives Studied ... Apr. 40
Adhesive Science Selected as Topic for Gordon Research Conference ... Apr. 43
Adhesive Seminar Conducted by GE and Binks ... Aug. 43
Adhesives and Methods for Bonding Metal and Plastics to Porous Substrates ... *T. F. Duncan* Apr. 24
Adhesives for Bonding Large High-Temperature Sandwich Structures ... *Sidney Litvak and Richard Kantner* Nov. 24
Adhesives for Coupling Large Strains ... *F. T. Wooten* Mar. 30
Adhesives for the Snack Food Market ... *Stanley Sacharow* Sept. 8
Adhesives Sessions Planned for Institute at Univ. of Wisc. ... Jan. 38
ADLER, O. E.
Bonding Wire Cords to Rubber . Jan. 30
Advancing Adhesive Bonding Through Training ... *Charles V. Cagle* Mar. 40
Advantages of Hydroxyvinyl Resins in Adhesive Formulations ... *J. Rufford Harrison* Oct. 24
Aging, Accelerated, of Pressure-Sensitive Tape .. *R. F. Grossman* Dec. 41
American Association of Textile Chemists and Colorists Discuss Quality of Bonded Fabric at Montreal Meeting ... Jan. 40
AMERICAN SOCIETY FOR TESTING AND MATERIALS, COMMITTEE D-14
New Task Group Formed ... Mar. 43
Holds Meeting in New Orleans (Mar. 26-28) ... June 46
AMSTOCK, JOSEPH S.
Reclassification of Joint Sealants Feb. 18
Anderson Retires from Pratt & Lambert ... Nov. 59
Arno Elects New Officers ... July 46
Asbestos, Resin-Grade, Improves Thixotropic Properties of Highway Marker Adhesive ... Mar. 37
AUSTIN, H. F., ADAMS, M. F. AND RAFF, R. A.
Water Resistant Plywood Adhesive Based on Whole Wheat Flour ... Sept. 34
AUTHORS
Adams, Mark F. ... Sept. 34
Adler, O. E. ... Jan. 30
Amstock, Joseph S. ... Feb. 18
Austin, Helen F. ... Sept. 34
Baran, Eugene A. ... Sept. 39
Bodnar, M. J. ... May 35
Brent, Elder G. ... Oct. 31
Button, Nelson F. ... Feb. 27
Cagle, Charles V. ... Mar. 40
Carter, Giles F. ... June 21
Damske, Lynn A. ... Sept. 20
DeLollis, N. J. ... Jan. 25
Devine, A. T. ... May 25
Duncan, T. F. ... Apr. 24
Duus, Andreas, Jr. ... Feb. 34
Gee, Arthur L. ... June 36
Greenman, Joseph ... May 28
Grossman, R. F. ... Dec. 41
Hallman, R. H. ... Jan. 22
Harrison, J. Rufford ... Oct. 24
Hauser, Ray L. ... Mar. 26
Hess, James E. ... Nov. 41
Hicks, Arthur E. ... May 21
Jackson, Lloyd C. ... Nov. 41
Kantner, Richard ... Nov. 24
Kemper, Paul J. ... Nov. 36
Kiriyama, Shigeru ... July 18
Lane, P. C. ... Jan. 22
Lerner, R. M. ... Dec. 35
Lewis, Armand F. ... Oct. 31
Limon, Robert J. ... June 40
Litvak, Sidney ... Nov. 24
Lyon, F. ... May 21
Marshall, Thomas A., Jr. ... Mar. 34
Martin, Robin A. ... Mar. 22
McCart, Bernard A. ... Aug. 32
Mehra, Pawan ... June 30
Metil, Ignatius ... Sept. 25
Meyer, Horton N., Jr. ... Oct. 41
Montgomery, Richard H. ... May 28
Neel, K. R. ... Nov. 45

AUTHORS (Cont'd)
Paterson, D. A. ... Aug. 25
Petersen, Kenneth C. ... Mar. 22
Raff, R. A. V. ... Sept. 34
Rauhut, H. W. ... Dec. 28
Ross, Lloyd ... June 40
Sebbard, Franklin V. ... Feb. 25
Sharkey, H. Joseph ... Nov. 36
Slade, William F. ... July 37
Slone, Milton ... Dec. 23
Snogren, Richard C. .. July 26, Aug. 36
Sturwold, Robert J. ... Nov. 36
Treff, Arnold ... Aug. 20
Valentine, James H. ... Apr. 19
Waitz, William A., Jr. ... Apr. 31
Whitmer, Martin ... Dec. 37
Wooten, F. T. ... Mar. 30
Automatic Bonding System Simplifies Auto Assembly ... June 27

B

BARAN, EUGENE A.
Using Hot Melt Adhesives in Automated Assembly of TV Coils ... Sept. 39
Battelle Reports Progress on New Fastening Technique ... July 48
BODNAR, M. J. AND DEVINE, A. T.
Effects of Various Surface Treatments on Adhesive Bonding of Polyethylene ... May 28
Bond Failure, Mechanism of, Theory of Adhesion, and Mechanism of Bond Improvement: Part II—A Proposed Mechanism of Bond Failure ... *N. J. DeLollis* Jan. 25
Bonded Landing Pads Provide Safer Stops for British Crafts ... Apr. 36
BONDING
Adhesive, Effects of Various Surface Treatments on ... *A. T. Devine and M. J. Bodner* May 35
Improved Adhesive, Plasma Treatment of Delrin for ... *R. M. Lerner* Dec. 35
Large High-Temperature Sandwich Structures, Adhesives for ... *Sidney Litvak and Richard Kantner* Nov. 24
Metal and Plastics to Porous Substrates, Adhesives and Methods for ... *T. F. Duncan* Apr. 24
Ultrasonic, Ultra Adhesives for ... *Ray L. Hauser* Mar. 26
Wire Cords to Rubber *O. E. Adler* Jan. 30
Bookbinding, Modernization of, with Fast Hot Melt Adhesives ... *Franklin V. Sebbard* Feb. 25
BOOK REVIEWS
ABC Meter-Mix (Automatic Burner) ... June 4
Accumet pH Meters (Fisher Scientific) ... June 64
Adhesive-Backed Materials (Deccofelt) ... May 62
Adhesive Bonding Techniques and Applications (Charles V. Cagle) ... June 64
Adhesive Ingredient (Degussa) . Nov. 64
Adhesive Spreader (Black Brothers) ... Dec. 58
Adhesives for Industry (Roberts Consolidated) ... May 60
All-Graphite Sealant and All-Graphite Gasket Tape (Union Carbide) ... Nov. 64
All Products of GPE (No. 21A) (Global Process Equipment) ... July 64
Anaerobic Compounds, Brochure 343A (Loctite) ... Oct. 62
Analysis of Paper (Marcel Dekker) ... Sept. 62
Antifoam Brochure (Dow Corning) ... Dec. 57
Applied Nomography (Gulf Publishing) ... Oct. 62
Arno Adhesive Tapes Catalog (Arno) ... Mar. 61
British Adhesives Directory, 1969 Edition (A. S. O'Connor) ... Aug. 58

Book Reviews (Cont'd)
Bulletin CDX-66B (General Electric) ... July 62
Butyl HT (Chlorobutyl Rubber) Compounding and Applications Manual (Enjay Chemical) ... July 62
Ceilcote High Strength Grouts (Ceilcote) ... May 62
Celanar Polyester Film Adhesives (Celanese Plastics) ... Feb. 50
Centrifugal Mixer, Catalog No. 14 (Simonds Machine) ... Dec. 57
Chemfo 55 (GAF) ... Feb. 49
Chemfo 56 (GAF) ... Jan. 52
Conquest of Inner Space in Machinery Parts (Loctite) ... Feb. 49
Cov-O-Oir (Corn Products) ... Jan. 52
CSI Material Testing Instruments and Equipment, 1969 Catalog (Custom Scientific Instruments) Jan. 53
Cycleweld K-121 Data Sheet (Chrysler) ... Jan. 52
Data Sheet 84-7 (Chrsyler) ... Jan. 52
Data Sheet 84-8 (Chrsyler) ... Feb. 49
Data Sheet 84-11 (Chrsyler) ... Mar. 60
Data Sheet M-150 (Isocyanate Products) ... May 62
Design Handbook—Loctite Technology (Loctite) ... Feb. 49
Devcon Catalog (Devcon) ... Jan. 53
The Development and Use of Polyester Products (McGraw-Hill) ... Nov. 64
Dillon Universal Testers and Electronic Readouts (W. C. Dillon) ... Apr. 52
Dispensing Equipment, Catalog E-8 (Electric Switches) ... July 62
Eastman 910 Adhesive (Eastman Chemical) ... June 64
Eastman Products Index (Eastman Chemical) ... Jan. 53
Eccotherm Folder (Emerson and Cuming) ... Nov. 66
Elastomer News (Phillips Petroleum) ... Nov. 66
Enjay Technical Information Index (Enjay Chemical) ... Apr. 52
Epoxy Adhesive (Sika Chemical) Dec. 58
Epoxy Fact Sheet No. 8173 (Hardman) ... July 62
Epoxy Resin Technology (Paul F. Bruins) ... Mar. 60
Epoxy Resin Technology (John Wiley) ... Oct. 62
Evolutionary Operation (John Wiley) ... Nov. 64
Film-Forming Composition, Vol. I, Part II (Raymond R. Myers and J. S. Long) ... Apr. 52
Foam Adhesive (3M) ... Dec. 57
Fiber Facts, 1969-1970 (American Viscose) ... July 62
Freund Catalog (Freund Can) . Feb. 49
Glycol Ether Solvent Series (Eastman Chemical) ... Nov. 66
Glue-Fast Brochure (Glue-Fast Equipment) ... July 64
Goodyear Directory (Goodyear Tire & Rubber) ... Aug. 58
Goodyear Technical Booklets (Goodyear Tire & Rubber) ... Nov. 64
Government Buyer's Guide to Silicones (Dow Corning) ... Feb. 49
Grace Polymers and Chemicals Catalog (W. R. Grace) ... July 62
Guide Z-CIS (3M) ... Aug. 58
Hadley Product Information (Hadley Adhesives and Chemical) ... July 62
High-Intensity Mixer Bulletin HIM 68 (Read) ... July 64
Hot Melt Adhesive, TDS No. R-187 (Eastman Chemical) ... Dec. 58
Hot Melt Adhesives Booklet (H. B. Fuller) ... Mar. 61
Industrial Polymers Brochure (Standard Brands Chemical) .. Jan. 53
Intensive Type Stirrers, Bulletin 691 (Conn and Co.) ... May 60
Interim Industry Standard for Hardwood and Decorative Plywood (Hardwood Plywood Manufacturers Assn.) ... June 64
Introduction to Manufacturing Management (American Society of Tool & Manufacturing Engineers) ... Oct. 62

Book Reviews (Cont'd)
Introduction to Plastics (J. H. Briston and C. C. Gosselin) ... Mar. 60
Label Manual of Standard Specifications (TLMI) ... July 62
Laminating Adhesives (Standard Brands Chemical) ... Aug. 58
List of Tested and Approved Sealant Products (Thiokol Chemical) ... Apr. 52
Loctite Quick-Set Adhesive 404 (Loctite) ... Sept. 64
Marbon Technical Reports, P-161 Series (Borg-Warner) ... Aug. 58
Materials and Processes for the 1970's (Society of Aerospace Material and Process Engineers) . Dec. 57
Materials for Adhesives (Reichhold) ... May 60
Measurement and Control Products (Rockwell Manufacturing) July 64
Metallic Coating of Plastics (Electrochemical Publications) . Oct. 62
Metallic Stearates (Witco Chemical) ... July 64
Metering Pumps (American Lewa) ... Dec. 57
New Formula Insulation Adhesives, Z-SGIAB (3M) ... June 64
New Product Development Bulletin 77-G-1 (Velsicol Chemical) ... Oct. 64
1969 Book of ASTM Standards on Structural Sandwich Constructions; Wood; Adhesives, Part 16 (ASTM) ... Sept. 62
1969 Solvent Selector Chart (Eastman Chemical) ... Mar. 61
Nitrile Rubber Index (Standard Brands Chemical) ... Aug. 60
Norsid Comprehensive Catalog (Norsid) ... June 64
Paisley Adhesives for Industry (Paisley, Standard Brands Chemical) ... May 60
Pecors Synthacalk GC-5 (Pecora Chemical) ... Jan. 53
Plasticizer Adhesives, TDS X-216 (Eastman Chemical) ... Dec. 57
Plastics Rheology (R. S. Lenk) .. Apr. 52
Plyophen Phenolic Resins (Reichhold) ... Mar. 60
Polyester Adhesives (DuPont) .. Jan. 52
Polyurethane Foams: Technology, Properties and Applications, Plastic Report No. 37 (Clearinghouse for Federal Scientific and Technical Information) ... Nov. 64
Preparation Methods of Polymer Chemistry (Second Ed.) (Wayne R. Sorenson and Tod W. Campbell) ... Feb. 49
Pressure-Sensitive Transfer Adhesives (Bentham) ... Aug. 60
Processing Advantages of Solprene Elastomers, Bulletin 238 (Phillips Petroleum) ... July 62
Polidene 930, Bulletin MD450 (A. E. Staley) ... Sept. 64
Pulsafeeder Metering Pumps, Catalog 693 (Lapp Insulator) . Sept. 64
Quality Industrial Epoxy Resins (Armstrong Products) ... Apr. 52
Ren Adhesives Manual (Ren Plastics) ... Mar. 60
Resiweld Structural Adhesives (H. B. Fuller) ... Aug. 60
Rockwell Liquid Measurement Catalog MVH 1000-10 (Rockwell) Apr. 52
Rosins (Arizona Chemical) ... Feb. 50
Schenectady Resins in Adhesives Engineering (Schenectady Chemical) ... Aug. 58
Scotch-Brand Construction Adhesive (3M) ... Apr. 52
Scotch-Grip Fabric Adhesives (3M) ... Mar. 60
Scotch-Seal Industrial Sealants (3M) ... Feb. 50
Screw-Holding of Particleboard (National Particleboard Assn.) Feb. 50
Silicone Insulating Varnishes and Adhesive Resins, S-25B (General Electric) ... Oct. 64
Silicone Materials for Marine Applications (General Electric) .. Dec. 58

Book Reviews (Cont'd)
Silicones for the Chemical Industry (Union Carbide) ... May 60
Slitter-Rewinder Machines (John Dusenbery) ... Dec. 58
Special List of Organic Intermediates (BASF) ... Aug. 58
Specialty Chemicals for Industry (Alcolac Chemical) ... Jan. 52
Specifications for Sealants (National Assn. of Architectural Metal Manufacturers) ... Jan. 52
Tape Specialties for Every Purpose (M & C Specialties) ... Sept. 62
Tech Book Facts Index (Goodyear) ... May 60
Technical Bulletin Sheets (Rubber Latex) ... Aug. 58
Technical Data Book, S-35 (General Electric) ... July 64
Technical Report Chemfo 55A (GAF) ... July 64
Technical Report L-115B (Borg-Warner) ... May 62
Thermogrip Adhesive 1302 (USM) Feb. 50
Treatise on Adhesion and Adhesives, Vol. II—Materials (Marcel Dekker) ... Sept. 62
Urethane Chemicals and Machinery (Witco) ... Oct. 64
Varcum Phenolic and Furan Resins (Reichhold) ... Mar. 60
Veneer Directory (Hardwood Manufacturers Assn.) ... Nov. 66
Vinyl Acetate Abstract Bulletin (Air Reduction) ... Jan. 52
Wood-Working Adhesives (Standard Brands Chemical) ... Dec. 57
Borden Chemical Plans $3.5 Million Expansion ... Oct. 44
Bulk Shipping Tanks Cut Handling Tasks ... May 38
Button, Nelson F.
Phenol Resin Adhesives ... Feb. 27
Butyl Rubber, XL, Improves Preformed Sealant Tapes ... *D. A. Patterson* Aug. 25

C

Cagle, Charles V.
Advancing Adhesive Bonding Through Training ... Mar. 40
Carpet Industry, Coatings and Adhesives for the ... *Milton Slone* Dec. 23
Carter, Giles F.
Low-Cost Durability Testing of Stressed Lap-Shear Adhesive Joints ... June 21
Cellophane—A Guide to the Adhesive Industry ... *Stanley Sacharow* Dec. 8
Check List for Adhesive Suppliers, A ... *Stanley Sacharow* Mar. 8
Chemicals and Components
AMRES 7600 Starch Additive (Pacific Resins & Chemicals) . Sept. 51
Bostik GP85-1009E Polyester (USM Chemical) ... July 47
Elvax 265 Vinyl Resin (DuPont) Sept. 55
Epoxy Resin Additive (Ethyl Corp.) ... July 46
Extrusion Primer (Borden Chemical) ... Mar. 51
Flame Retardant (Swift Chemical) ... Aug. 46
Krynac Gel-Free Nitrile Rubbers (Polysar) ... Dec. 53
PVA Emulsion (W. R. Grace) .. July 54
Polyamides Offered (Emery) .. Feb. 40
Polymers Announced (USM Chemical) ... Mar. 48
Resins Announced (USM Chemical) ... Feb. 40
SAG 4220 Antifoam (Union Carbide) ... May 48
SBR Crumb (Goodyear) ... Apr. 43
Trimellitate Plasticizer (Enjay) June 47

Chemistry of High Speed in Solvent Laminations ..... *Andreas Duus, Jr.* Feb. 34
Coatings and Adhesives for the Carpet Industry, What's in Store for ..... *Milton Slone* Dec. 23
Coating Process Prolongs Life of Gluing Heads ..... Jan. 20
Coater/Laminator, How to Choose A ..... *L. A. Damske* Sept. 20
Component for Hot Melt Adhesives, A Low-Cost .. *K. R. Neel* Nov. 45
Conductivity, Optimum Electrical, Designing Adhesives and Interfaces for .... *L. C. Jackson and J. E. Hess* Nov. 41
Conveying and Pumping Lightweight Solids *William F. Slade* July 37

D

DAMSKE, L. A.
How to Choose a Coater/Laminator ..... Sept. 20
DELOLLIS, N.J.
Theory of Adhesion, Mechanism of Bond Failure and Mechanism of Bond Improvement: Part II —A Proposed Mechanism of Bond Failure ..... Jan. 25
Delrin for Improved Adhesive Bonding, Plasma Treatment of ..... *R. M. Lerner* Dec. 35
Design of Chemical Research Center Emphasizes Efficiency and Safety ..... May 32
Designing Adhesives and Interfaces for Optimum Electrical Conductivity .... *L. C. Jackson and J. E. Hess* Nov. 41
DEVINE, A. T. AND BODNAR, M. J.
Effects of Various Surface Treatments on Adhesive Bonding of Polyethylene ..... May 28
Dexter Plans to Acquire Shell's Adhesive Activity ..... Nov. 47
Dispensing, Metering, Mixing and, How to Purchase Equipment for ..... *Pawan Mehra* June 39
Dispersers, High Speed, How to Increase Profits with .... *Horton N. Meyer, Jr.* Oct. 41
DUNCAN, T. F.
Adhesives and Methods for Bonding Metal and Plastics to Porous Substrates ..... Apr. 24
Durability Testing, Low-Cost, of Stressed Lap-Shear Adhesive Joints ..... *Giles F. Carter* June 21
DUUS, ANDREAS, JR.
Chemistry of High Speed in Solvent Laminations ..... Feb. 34

E

EDITORIALS
Fallout from a Synthetic Heart . May 6
Hold It There a Moment ..... Apr. 6
Let's Make It Valid ..... Jan. 6
Like Help ..... Sept. 6
Making Specs Livable ..... Nov. 6
More on Machinery and Equipment ..... Feb. 6
New Publisher for Adhesives Age ..... July 6
New Role for Production Managers ..... Dec. 6
Nothing's Ever Perfect ..... June 6
Now—The Conglomerate ..... Mar. 6
Room at the Top ..... Aug. 6
EDITORIALS (Cont'd)
Telling It like It Is ..... Oct. 6
Effects of Various Surface Treatments on Adhesive Bonding of Polyethylene ..... *A. T. Devine and M. J. Bodnar* May 35
Elastomers, Uncured, Tack and Adhesion of ..... *Kenneth C. Petersen and Robin A. Martin* Mar. 22
ELDER, G. B. AND LEWIS, A. F.
Selecting Adhesives for Vibration Damping Metal Laminate Applications ..... Oct. 31
Electrical Conductivity, Optimum, Designing Adhesives and Interfaces for ..... *L. C. Jackson and J. E. Hess* Nov. 41
Epoxy Resins, Metal-Containing, as Adhesives .. *Shigeru Kiriyama* July 18
Equipment, How to Purchase, for Metering, Mixing and Dispensing ..... *Pawan Mehra* June 30
Extrusion Primer Tested by Borden ..... Mar. 51
Evaluating a New Breed of Tackifying Resin ..... *B. A. McCart* Aug. 32

F

Filler, A Low Cost Mineral, for Formulating New Adhesives .... *Martin Whitmer* Dec. 37
FINANCIALS
Airco ..... May 54
American Cyanamid ..... June 54
Dow Chemical ..... July 54
GAF Corp. ..... May 54
Goodyear ..... Sept. 56
Firestone ..... Aug. 52
H. B. Fuller .. Apr. 47, June 54, Aug. 52
3M ..... July 54
National Starch June 54, July 54, Sept. 56
Polymer Corp. Ltd. ..... June 54
PRC Corp. ..... July 54
Raybestos-Manhattan ..... Sept. 56
Reichhold Chemicals ..... May 54
Reichhold Chemicals (Canada) . Apr. 47
Rohm and Haas ..... May 54, June 54
Thiokol Chemical ..... July 54
Flap Adhesion, Hot Melt Improves, on Beer Packaging Line Mar. 38
Food Packaging Guide Now Available ..... *Stanley Sacharow* Nov. 8
H. B. FULLER
Announces Production Moves ... Mar. 45
Enters Retail Field ..... Nov. 52
Furan Resins .... *Ignatius Metil* Sept. 25

G

GEE, ARTHUR L.
Getting into the Swim with Adhesives ..... June 36
Getting into the Swim with Adhesives ..... *Arthur L. Gee* June 36
Glass and Glazing Joints .... *James H. Valentine* Apr. 19
Gluing Heads, Coating Process Prolongs Life of ..... Jan. 20
Goodrich-Gulf Changes Name .... July 51
GREENMAN, JOSEPH AND MONTGOMERY, RICHARD H.
Pressure-Sensitives, Looking Back at a Decade of Growth with a Peek into the Future . May 28
GROSSMAN, R. F.
Accelerated Aging of Pressure-Sensitive Tape ..... Dec. 41
Gum Rosin Derivatives Discussed at New Orleans USDA Meeting Sept. 46
Gummed Industries Group Elects Officers ..... Jan. 41

H

HALLMAN, R. H., AND LANE, P. C.
Use of Synthetic Polymers in Pressure-Sensitive Adhesives .. Jan. 22
HARDWOOD PLYWOOD MANUFACTURERS ASSOCIATION
Forms Membership Groups ..... Jan. 39
Holds 1969 Spring Meeting on March 19 to 21 in Savannah, Georgia ..... July 44
HARRISON, J. RUFFORD
Advantages of Hydroxyvinyl Resins in Adhesive Formulations .. Oct. 24
HAUSER, RAY L.
Ultra Adhesives for Ultrasonic Bonding ..... Mar. 26
HESS, J. E. AND JACKSON, L. C.
Designing Adhesives and Interfaces for Optimum Electrical Conductivity ..... Nov. 41
HICKS, ARTHUR E. AND LYON, F.
Adhesion of Natural Rubber to Brass Plated Wire ..... May 21
High-Solids Phenolic Resins for Plywood ..... Apr. 30
Highway Marker Adhesive, Resin-Grade Asbestos Improves Thixotropic Properties of .... Mar. 37
HOT MELTS
Batch Processing of, New Trunnion Valve Cuts Costs in ..... Apr. 34
Improve Flap Adhesion on Beer Packaging Line ..... Mar. 38
An Improved Technique for Determining the Viscosity of Resins for .. *P. J. Kemper, H. J. Sharkey and R. J. Sturwold* Nov. 36
A Low Cost Component for .... *K. R. Neel* Nov. 45
Modernization of Bookbinding with Fast *Franklin V. Sebbard* Feb. 25
Use in Automated Assembly of TV Coils .... *Eugene A. Baran* Sept. 39
How to Choose a Coater/Laminator ..... *L. A. Damske* Sept. 20
How to Get the Most from Trade Shows ..... *Stanley Sacharow* Feb. 8
How to Increase Profits with High Speed Dispersers .... *Horton N. Meyer, Jr.* Oct. 41
How to Purchase Equipment for Metering, Mixing and Dispensing ..... *Pawan Mehra* June 30
How to Select the Proper Folding Carton ..... *Stanley Sacharow* Oct. 8
Hydroxyvinyl Resins in Adhesive Formulations, Advantages of .. .. *J. Rufford Harrison* Oct. 24

I

Improved Technique for Determining the Viscosity of Hot Melt Resins, An .. *P. J. Kemper, H. J. Sharkey and R. J. Sturwold* Nov. 36
Interfaces, Adhesives and, for Optimum Electrical Conductivity, Designing .... *L. C. Jackson and J. E. Hess* Nov. 41
Introducing a New Adhesive ..... Feb. 30

J

JACKSON, L. C. AND HESS, J. E.
Designing Adhesives and Interfaces for Optimum Electrical Conductivity ..... Nov. 41

JOINTS
Glass and Glazing ..... *James H. Valentine* Apr. 19
Optimum Structural-Adhesive, Pretreating Polyethylene for .. .. *H. W. Rauhut* Dec. 28
Sealants, Reclassification of .... *Joseph S. Amstock* Feb. 18
Stressed Lap-Shear Adhesive, Low Cost Durability Testing of ..... *Giles F. Carter* June 21

K

KANTNER, RICHARD AND LITVAK, SIDNEY
Adhesives for Bonding Large High-Temperature Sandwich Structures ..... Nov. 24
KEMPER, P. J., SHARKEY, H. J., AND STURWOLD, R. J.
An Improved Technique for Determining the Viscosity of Hot Melt Resins ..... Nov. 36
KIRIYAMA, SHIGERU
Metal-Containing Epoxy Resins as Adhesives ..... July 18
Kneader-Extruder, Labor Savings Pay for ..... *Arnold Treff* Aug. 20

L

Labels, Wash-Off, Foil Price Switchers ..... Jan. 34
Labor Savings Pay for Kneader-Extruder ..... *Arnold Treff* Aug. 20
Laminating Process Reduces Heat Buildup in Electric Motor Parts June 43
Laminations, Chemistry of High Speed in Solvent .... *Andreas Duus, Jr.* Feb. 34
Laminator, Coater, How to Choose A ..... *L. A. Damske* Sept. 20
Landing Pads, Bonded, Provide Safer Stops for British Crafts . Apr. 36
LANE, P. C., AND HALLMAN, R. H.
Use of Synthetic Polymers in Pressure-Sensitive Adhesives ... Jan. 22
Lap-Shear Adhesive Joints, Low-Cost Durability Testing of Stressed ..... *Giles F. Carter* June 21
Latex Adhesive Systems, Thin Thickeners for .... *William H. Waitz, Jr.* Apr. 31
LERNER, R. M.
Plasma Treatment of Delrin for Improved Adhesive Bonding .... Dec. 35
Levine Receives Adhesives Award at D-14 Meeting in New Orleans ..... Apr. 43, June 46
LEWIS, A. F. AND ELDER, G. B.
Selecting Adhesives for Vibration Damping Metal Laminate Applications ..... Oct. 31
Lightweight Solids, Conveying and Pumping .. *William F. Slade* July 37
LIMON, ROBERT J. AND ROSS, LLOYD
Polyvinylpyrrolidone (PVP) and Modified Vinylpyrrolidone Resins ..... June 40
LITVAK, SIDNEY AND KANTNER, RICHARD
Adhesives for Bonding Large High-Temperature Sandwich Structures ..... Nov. 24
Low-Cost Component for Hot Melt Adhesives, A ..... *K. R. Neel* Nov. 45
Low-Cost Durability Testing of Stressed Lap-Shear Adhesive Joints ..... *Giles F. Carter* June 21
Low-Cost Mineral Filler for Formulating New Adhesives, A .. .. *Martin Whitmer* Dec. 37
LYON, F. AND HICKS, ARTHUR E.
Adhesion of Natural Rubber to Brass Plated Wire ..... May 21

M

MACHINERY AND EQUIPMENT
Adhesive Applicator (Black Brothers) ..... Jan. 48
Adhesive Pump (VanSco) ..... Oct. 58
Adhesion Tester (Zormco Electronics) ..... May 58
Applicator Gun (Nordson) ..... Mar. 56
Applicator Guns (3M) ..... Nov. 61
Applicator Head (VanSco) ..... July 58
Applicator Wheels (Nordson) ... Apr. 50
Automatic Counting Unit (Delta Engineering) ..... Sept. 58
Automatic Labeler (Avery) .... May 59
Bag Closing Unit (West Virginia Pulp and Paper) ..... Apr. 50
Ball Valves (Sethco Controls) . July 58
Batch Dispersion Units (Chemicals & Pigments Equipment) .. Dec. 54
Bend Testing Unit (Newsum Timber Engineers) ..... Aug. 56
Bottom Coder (Control Print) . Sept. 59
Box-Closing Machine (Netherlands Consulate General) ..... July 59
Building Block Dispenser (Zepco) ..... Aug. 56
Carton Gluer (Post Machinery) . July 58
Case Coder (Control Print) ... June 60
Case Sealer (General Corrugated Machinery) ..... Apr. 50
Coating Level System (Drexelbrook Engineering) ..... May 58
Coating Machines (Polytype SA) June 60
Coating System (Zicon) ..... Nov. 61
Coding Attachment (Adolph Gottscho) ..... June 60
Controlled Water Bath (Bench Scale Equipment) ..... May 59
Conveyor Oven (Grieve) ..... May 58
Conveyorized Washer (Wellco Chemical) ..... Jan. 48
Digital Readout (Metritape) ... Aug. 56
Dispensing System (Starnetics) Sept. 58
Electronic Heat Sealer (Solisyne) May 59
Electric Glue Gun (Adhesive Machinery) ..... Oct. 58
Emulsion Mixer (Lourdes Instrument) ..... Jan. 49
Epoxy Resin Pumps (Cabot Piping Systems) ..... Dec. 55
Flexographic Imprinters (Adolph Gottscho) ..... Sept. 58
Flexible Hose (Singer) ..... June 61
Fluid Mixer (Jesco) ..... Mar. 57
Gelation Timer (Techne) ..... July 58
Glue Joint Tester (Newsum Timber Engineers) ..... Mar. 57
Glue Spreader (Black Brothers) . Feb. 51
Heating Panels (Black Body) .. Sept. 58
High Intensity Mixers (Welex) .. Apr. 50
High Speed Disperser (Global Process Equipment) ..... Jan. 48
High Speed Wrapper (Roberts Consolidated) ..... Dec. 54
Hopper Feeders (Vac-U-Max) .. Oct. 59
Hot Melt Adhesive Tank (Sta-Warm Electric) ..... Dec. 54
Hot Melt Applicator (Possis Machine) ..... Nov. 60
Hot Melt Applicator (Franklin Glue) ..... Mar. 56
Hot Melt Applicator (Stein, Hall) ..... Feb. 51
Hot Melt Extruders (Sterling Extruder) ..... July 59
Hot Melt Hand Gun (Nordson) Oct. 59
Hot Melt Laminator (Pak-Tek) . Mar. 56
Hot Melt System (Spraymation) Oct. 58
Inspection Device (H. M. Morgan) ..... Dec. 54
Inspection Machine (Sohn Manufacturing) ..... Dec. 55
Ketjen Tackmeter (Testing Machines) ..... Feb. 51
Label Applicator (Quik Stik International) ..... Aug. 56
Label Press (Sohn Manufacturing) ..... Feb. 51, Apr. 51
Label Printer (Diagraph) ..... Aug. 56
Label Printing Machine (Markem) ..... May 59
Labeling Machine (St. Regis Paper) ..... Apr. 51
Lamination System (Union Tool) Feb. 51
Level Controller (Nordson) .... Jan. 49
Log Roll Winder (John Dusenbery) ..... July 58
MACHINERY AND EQUIPMENT (Cont'd)
Manual Label Gluer (Glue Fast Equipment) ..... Aug. 56
Manual Package Gluer (Valco Adhesive Application Systems) Mar. 56
Material Strength Tester (Electromatic Equipment) ..... Nov. 60
Measuring Unit (Beckman Instruments) ..... July 59
Meter-Mix Dispenser (Automatic Burner) ..... Feb. 51
Packaging Machine (Pak-Rapid) Nov. 61
Pneumatic Tape Applicator (Stamro) ..... May 58
Portable Gluing System (VanSco) ..... Mar. 56
Proportioning Unit (Binks) ..... May 58
Roller Coater (Union Tool) .... Apr. 50
Structural Adhesive (Fenwal) . Sept. 58
Surface Applicator (3M) ..... Sept. 58
Syringe-Holding Stand (Philip Fishman) ..... Oct. 59
TDS and pH Meters (Delta Scientific) ..... June 60
Telescoping Conveyor (Stewart-Glapat) ..... Dec. 54
Temperature Control System (Olkon) ..... Nov. 60
Tension Tester (Testing Machines) ..... Apr. 51
Thermo Hose Gun (Adhesive Machinery) ..... Dec. 55
Thermogrip Applicator (USM) ..... Mar. 57, Apr. 50
Tray Forming Machine (Lee Packaging Machinery) ..... Nov. 60
Turbo Mixer (Amaco) ..... Sept. 59
Vacuum Encapsulator (Warlock Systems) ..... Sept. 58
Variable Feeder (Gallard-Schlesinger) ..... Jan. 49
Viscosity Measure (Brookfield Engineering Laboratories) ..... Apr. 50
Wrapping Machine (Battle Creek Packaging Machines) ..... May 59
Wide Wheel Applicator (USM) . May 58
Zipper Coater (Adhesive Machinery) ..... Oct. 58
MARSHALL, THOMAS A., JR.
Voluntary Standards—Or Else .. Mar. 34
MARTIN, ROBIN A.
Tack and Adhesion of Uncured Elastomers ..... Mar. 22
Materials of Flexible Packaging—Part I and Part II .... *Stanley Sacharow* May 8, June 8
McCART, B. A.
Evaluating a New Breed of Tackifying Resin ..... Aug. 32
MEHRA, PAWAN
How to Purchase Equipment for Metering, Mixing and Dispensing ..... June 30
Merger Announced by ICI America ..... Feb. 38
Metal-Containing Epoxy Resins as Adhesives .... *Shigeru Kiriyama* July 18
Metal Laminate Applications, Selecting Adhesives for Vibration Damping .... *G. B. Elder and A. F. Lewis* Oct. 31
Metals and Plastics to Porous Substrates, Adhesives and Methods for Bonding .. *T. F. Duncan* Apr. 24
Metering, Mixing and Dispensing, How to Purchase Equipment for ..... *Pawan Mehra* June 30
METIL, IGNATIUS
Furan Resins ..... Sept. 25
MEYER, HORTON N., JR.
How to Increase Profits with High Speed Dispersers ..... Oct. 41
Mineral Filler for Formulating New Adhesives, A Low Cost ..... *Martin Whitmer* Dec. 37
Mixing and Dispensing, How to Purchase Equipment for Metering ..... *Pawan Mehra* June 30
Modernization of Bookbinding with Fast Hot Melt Adhesives ..... *Franklin V. Sebbard* Feb. 25
MONTGOMERY, RICHARD H. AND GREENMAN, JOSEPH
Pressure-Sensitives, Looking Back at a Decade of Growth with a Peek into the Future .. May 28

N

NATIONAL FIBRE CAN AND TUBE ASSOCIATION
Management of Corporate Cash Main Theme of Meeting (May 18-21) ..... Aug. 53
Meeting Covers Marketing (Jan. 30) ..... Apr. 37
Publishes Standards ..... Mar. 48
Studies Labor Relations at Meeting (Sept. 26) ..... Jan. 42
NATIONAL PLYWOOD ASSOCIATION
Holds Semi-Annual Meeting .... Aug. 46
Officers Named ..... Feb. 38
NATIONAL STARCH
Announces Realignment ..... Jan. 40
Names Seven ..... Mar. 44
New President ..... Apr. 38
NEEL, K. R.
A Low-Cost Component for Hot Melt Adhesives ..... Nov. 45
New Series of Gel Free Nitriles . Dec. 53
New Trunnion Valve Cuts Costs in Processing of Hot Melts .... Apr. 34
NORDSON CORPORATION
Names Ford and Mazich ..... Nov. 57
Training School Studies Hot Melts ..... Jan. 39

P

PACKAGING ADHESIVES, NEEDS, PROBLEMS
Adhesives for the Snack Food Market ..... Sept. 8
Cellophane—A Guide to the Adhesives Industry ..... Dec. 8
Check List for Adhesive Suppliers ..... Mar. 8
Food Packaging Guide Now Available ..... Nov. 8
How to Get the Most from Trade Shows ..... Feb. 8
How to Select the Proper Folding Carton ..... Oct. 8
Materials of Flexible Packaging: Part I and Part II ..... May 8, June 8
Packaging Institute Holds Laminations Seminar ..... Apr. 8
Packaging Materials for the Adhesives Industry ..... July 8
Tracing the History of Packaging Jan. 8
Unraveling the Mystery of Polypropylene ..... Aug. 8
Packaging Institute Holds Laminations Seminar ..... *Stanley Sacharow* Apr. 8
Packaging Line, Hot Melt Improves Flap Adhesion on Beer . Mar. 38
Packaging Materials for the Adhesives Industry ..... *Stanley Sacharow* July 8
Paisley Appoints Two Managers Sept. 47
PATERSON, D. A.
XL Butyl Rubber Improves Preformed Sealant Tapes ..... Aug. 25
PETERSEN, KENNETH C.
Tack and Adhesion of Uncured Elastomers ..... Mar. 22
Phenol Resin Adhesives ..... *Nelson F. Button* Feb. 27
Phenolic Resins, High-Solids, for Plywood ..... Apr. 30
Plasma Treatment of Delrin for Improved Adhesive Bonding .. .. *R. M. Lerner* Dec. 35
Plastics, Metals and, to Porous Substrates, Adhesives and Methods for Bonding . *T. F. Duncan* Apr. 24
Plywood Adhesive, Water Resistant, Based on Whole Wheat Flour ..... *R. A. V. Raff, H. F. Austin and M. F. Adams* Sept. 34
Plywood, High-Solids Phenolic Resins for ..... Apr. 30
Polyethylene for Optimum Structural-Adhesive Joints, Pretreating ..... *H. W. Rauhut* Dec. 28
Polyvinylpyrrolidone (PVP) and Modified Vinylpyrrolidone Resins *Lloyd Ross and Robert J. Limon* June 40
PPG INDUSTRIES
Adhesive Expands Technical Sales/Service ..... Apr. 42
Appoints Two ..... Dec. 48
Preparation Process, Selection of Surface: Part I—Process Selection Guide; Part 2—Appendix of Surface Preparation Processes .. *Richard C. Snogren* July 26, Aug. 36
PRESSURE-SENSITIVES
Adhesives, Use of Synthetic Polymers in ..... *R. H. Hallman and P. C. Lane* Jan. 22
Tape, Accelerated Aging of .. .. *R. F. Grossman* Dec. 41
Tape Council Officers Named . Feb. 36
Looking Back at a Decade of Growth with a Peek into the Future ..... *Joseph Greenman and Richard H. Montgomery* May 28
Pretreating Polyethylene for Optimum Structural-Adhesive Joints. Part I—Theoretical Concepts ..... *H. W. Rauhut* Dec. 28
Processing of Hot Melts, New Trunion Valve Cuts Costs in .. Apr. 34
Program Design, Inc., Offers Adhesives Course with Spring Series ..... Mar. 44
Pumping, Conveying and, Lightweight Solids *William F. Slade* July 37

R

RAFF, R. A. V., AUSTIN, H. F. AND ADAMS, M. F.
Water Resistant Plywood Adhesive Based on Whole Wheat Flour ..... Sept. 34
RAUHUT, HORST W.
Pretreating Polyethylene for Optimum Structural-Adhesive Joints. Part I—Theoretical Concepts ..... Dec. 28
Reclassification of Joint Sealants ..... *Joseph S. Amstock* Feb. 18
Resin, Tackifying, Evaluating a New Breed of ... *B. A. McCart* Aug. 32
Resin-Grade Asbestos Improves Thixotropic Properties of Highway Marker Adhesive ..... Mar. 37
RESINS
High-Solids Phenolic, for Plywood ..... Apr. 30
Furan ..... *Ignatius Metil* Sept. 25
Hot Melt, An Improved Technique for Determining the Viscosity of .. *P. J. Kemper, H. J. Sharkey and R. J. Sturwold* Nov. 36
Hydroxyvinyl, Advantages of, in Adhesive Formulations .... *J. Rufford Harrison* Oct. 24
Metal-Containing Epoxy, as Adhesives ..... *Shigeru Kiriyama* July 18
ROSS, LLOYD AND LIMON, ROBERT J.
Polyvinylpyrrolidone (PVP) and Modified Vinylpyrrolidone Resins ..... June 40
RUBBER
Bonding Wire Cords to .... *O. E. Adler* Jan. 30
Butyl XL, Improves Preformed Sealant Tapes . *D. A. Paterson* Aug. 25

S

Sandwich Structures, Adhesives for Bonding Large High-Temperature ..... *Sidney Litvak and Richard Kantner* Nov. 24
SACHAROW, STANLEY
Adhesives for the Snack Food Market ..... Sept. 8
SACHAROW, STANLEY (Cont'd)
Cellophane—A Guide to the Adhesives Industry ..... Dec. 8
Check List for Adhesive Suppliers ..... Mar. 8
Food Packaging Guide Now Available ..... Nov. 8
How to Get the Most from Trade Shows ..... Feb. 8
How to Select the Proper Folding Carton ..... Oct. 8
Materials of Flexible Packaging: Part I and Part II .. May 8, June 8
Packaging Institute Holds Laminations Seminar ..... Apr. 8
Packaging Materials for the Adesives Industry ..... July 8
Tracing the History of Packaging Jan. 8
Unraveling the Mystery of Polypropylene ..... Aug. 8
Sealant Tapes, XL Butyl Rubber Improves Preformed .... *D. A. Paterson* Aug. 25
Sealants, Reclassification of Joint ..... *Joseph S. Amstock* Feb. 18
SEBBARD, FRANKLIN V.
Modernization of Bookbinding with Fast Hot Melt Adhesives .. Feb. 25
Selecting Adhesives for Vibration Damping Metal Laminate Applications *G. B. Elder and A. F. Lewis* Oct. 31
Selection of Surface Preparation Processes: Part I—Process Selection Guide; Part II—Appendix of Surface Preparation Processes .... *Richard C. Snogren* July 26, Aug. 36
SHARKEY, H. J., STURWOLD, R. J. AND KEMPER, P. J.
An Improved Technique for Determining the Viscosity of Hot Melt Resins ..... Nov. 36
SLADE, WILLIAM F.
Conveying and Pumping Lightweight Solids ..... July 37
SLONE, MILTON
What's in Store for Coatings and Adhesives for the Carpet Industry ..... Dec. 23
SNOGREN, RICHARD C.
Selection of Surface Preparation Processes: Part I—Process Selection Guide; Part II—Appendix of Surface Preparation Processes ..... July 26, Aug. 36
Solids, Conveying and Pumping Lightweight .. *William F. Slade* July 37
Solvent Laminations, Chemistry of High Speed in *Andreas Duus, Jr.* Feb. 34
Standards, Voluntary—or Else ... . *Thomas A. Marshall, Jr.* Mar. 34
Strains, Adhesives for Coupling Large ..... *F. T. Wooten* Mar. 30
Stressed Lap-Shear Adhesive Joints, Low-Cost Durability Testing of ..... *Giles F. Carter* June 21
Structural-Adhesive Joints, Pretreating Polyethylene for Optimum ..... *H. W. Rauhut* Dec. 28
Structures, Adhesives for Bonding Large High-Temperature Sandwich ..... *Sidney Litvak and Richard Kantner* Nov. 24
STURWOLD, R. J., KEMPER, P. J. AND SHARKEY, H. J.
An Improved Technique for Determining the Viscosity of Hot Melt Resins ..... Nov. 36
Substrates, Adhesives and Methods for Bonding Metals and Plastics to Porous *T. F. Duncan* Apr. 24
Surface Preparation Processes, Selection of: Part I—Process Selection Guide; Part II—Appendix of Surface Preparation Processes .... *Richard C. Snogren* July 26, Aug. 36
Surface Treatments, Various, Effects of, on Adhesive Bonding *A. T. Devine and M. J. Bodnar* May 35
Swift Chemical Relocates Offices . Jan. 39
Synthetic Polymers, Use of, in Pressure-Sensitive Adhesives ... *R. H. Hallman and P. C. Lane* Jan. 22

T

Tack and Adhesion of Uncured Elastomers ..... *Kenneth C. Petersen and Robin A. Martin* Mar. 22
Tackifying Resin, Evaluating a New Breed of .... *B. A. McCart* Aug. 32
Tape, Accelerated Aging of Pressure-Sensitive .. *R. F. Grossman* Dec. 41
Tapes, XL Butyl Rubber Improves Preformed Sealant .... *D. A. Paterson* Aug. 25
Testing, Low-Cost Durability, of Stressed Lap-Shear Adhesive Joints ..... *Giles F. Carter* June 21
Theory of Adhesion, Mechanism of Bond Failure and Mechanism of Bond Improvement: Part II—A Proposed Mechanism of Bond Failure ..... *N. J. DeLollis* Jan. 25
Thin Thickeners for Latex Adhesive Systems .... *William H. Waitz, Jr.* Apr. 31
Thixotropic Properties, Resin-Grade Asbestos Improves, of Highway Marker Adhesive .... Mar. 37
Tracing the History of Packaging .....*Stanley Sacharow* Jan. 8
Training, Advancing Adhesive Bonding Through .... *Charles V. Cagle* Mar. 40
TREFF, ARNOLD
Labor Savings Pay for Kneader-Extruder ..... Aug. 20

U

Unraveling the Mystery of Polypropylene ... *Stanley Sacharow* Aug. 8
Ultra Adhesives for Ultrasonic Bonding ..... *Ray L. Hauser* Mar. 26
Use of Synthetic Polymer in Pressure-Sensitive Adhesives ..... *R. H. Hallman and P. C. Lane* Jan. 22
Using Hot Melt Adhesives in Automated Assembly of TV Coils ..... *Eugene A. Baran* Sept. 39

V

VALENTINE, JAMES H.
Glass and Glazing Joints ..... Apr. 19
Vibration Damping Metal Laminate Applications, Selecting Adhesives for .... *G. B. Elder and A. F. Lewis* Oct. 31
Viscosity of Hot Melt Resins, An Improved Technique for Determining the . *P. J. Kemper, H. J. Sharkey and R. J. Sturwold* Nov. 36
Voluntary Standards—or Else .... *Thomas A. Marshall, Jr.* Mar. 34

W

WAITZ, WILLIAM H., JR.
Thin Thickeners for Latex Adhesive Systems ..... Apr. 31
Wash-Off Labels Foil Price Switchers ..... Jan. 34
Water Resistant Plywood Adhesive Based on Whole Wheat Flour ..... *R. A. Raff, H. F. Austin and M. F. Adams* Sept. 34
What's in Store for Coatings and Adhesives for the Carpet Industry ..... *Milton Slone* Dec. 23
WHITMER, MARTIN
A Low-Cost Mineral Filler for Formulating New Adhesives .. Dec. 37
Wire Cords to Rubber, Bonding ..... *O. E. Adler* Jan. 30
WOOTEN, F. T.
Adhesives for Coupling Large Strains ..... Mar. 30

X

XL Butyl Rubber Improves Preformed Sealant Tapes .... *D. A. Paterson* Aug. 25